
3COM Etherlink III 3C900-B Ethernet Adapter

Installation Guide

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1 Read This First

Before installing the network adapter:

- If your OS is Windows 95 SR2.5, go into the BIOS setup and set PnP OS field to YES.
- If your OS is Windows NT 4.0, go into the BIOS setup and set PnP OS field to NO.
- If your OS is Windows 98 2nd edition, go into the BIOS setup and set PnP OS field to YES.
- If your OS is Windows for Workgroup 3.11, go into the BIOS setup and set PnP OS field to NO.

How to Forcibly Modify Resources Allocated to the 3COM EtherLink XL 3C900B PCI adapter:

Do this only if needed and only if you are an advanced user.

- For advanced users only: In case of resource conflict, you can try to change the resources for the network adapter. To do this, turn the Vectra system power off, remove the network adapter and install it into a different PCI slot.

2 Connecting to a Novell NetWare 5.0 Server

Microsoft Windows 95 SR2.5

Requirements

Operating System	Windows 95 SR2.5
Driver Version	1.51
Driver File	E190xbc5.sys
Server OS	NetWare 5.0 Server
Client OS	Novell

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and boot to Windows 95.
- 4 Windows 95 will detect the network adapter as “3Com Etherlink PCI Combo NIC (3C900B-COMBO)” during start up and install the OS embedded driver.
- 5 Click on “YES” when Windows 95 prompts to restart the system.
- 6 After restarting the system, additional changes in the network properties, such as: workgroup name, computer name, etc. may be necessary. Ask your Network Administrator for more information. Restart the system if changes are made.
- 7 From the location of the “Novell Client v3.1 for Windows 95/98” installation files, execute “Setup.exe”.
- 8 Click on “Yes” to accept the “Novell Terms and Conditions”.
- 9 Select either “Typical” or “Custom” and click on “Install”. Typical Installation is normally chosen. Select Custom Installation only if you are an administrator or an advanced user. When prompted for options during installation, ask your Network Administrator for more information.
- 10 Click on “Reboot” once the installation is complete.

3 Connecting to a Microsoft Windows NT 4.0 Server

Microsoft Windows 95 SR2.5 Requirements

Operating System	Windows 95 SR2.5
Driver Version	1.51
Driver File	E190xbc5.sys
Server OS	Windows NT 4.0 Server
Client OS	Microsoft

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and boot to Windows 95.
- 4 Windows 95 will detect the network adapter as “3Com Etherlink PCI Combo NIC (3C900B-COMBO)” during start up and install the OS embedded driver.
- 5 Click on “YES” when Windows 95 prompts to restart the system.
- 6 After restarting the system, additional changes in the network properties, such as: workgroup name, computer name, etc. may be necessary. Ask your Network Administrator for more information. Restart the system if changes are made.

4 Connecting to a Novell NetWare 4.11 Server

Microsoft Windows 95 SR2.5

Requirements

Operating System	Windows 95 SR2.5
Driver Version	1.51
Driver File	E190xbc5.sys
Server OS	NetWare 4.11 Server
Client OS	Novell

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and boot to Windows 95.
- 4 Windows 95 will detect the network adapter as “3Com Etherlink PCI Combo NIC (3C900B-COMBO)” during start up and install the OS embedded driver.
- 5 Click on “YES” when Windows 95 prompts to restart the system.
- 6 After restarting the system, additional changes in the network properties, such as: workgroup name, computer name, etc. may be necessary. Ask your Network Administrator for more information. Restart the system if changes are made.
- 7 From the location of the “Novell Client v3.1 for Windows 95/98” installation files, execute “Setup.exe”.
- 8 Click on “Yes” to accept the “Novell Terms and Conditions”.
- 9 Select either “Typical” or “Custom” and click on “Install”. Typical Installation is normally chosen. Select Custom Installation only if you are an administrator or an advanced user. When prompted for options during installation, ask your Network Administrator for more information.
- 10 Click on “Reboot” once the installation is complete.

5 Connecting to a Novell NetWare 5.0 Server

Microsoft Windows NT 4.0 Workstation

Requirements

Operating System	Windows NT 4.0 Workstation
Driver Version	3.40.40
Driver File	E190xnd4.sys
Server OS	Novell NetWare 5.0 Server
Client OS	Client v4.6 for Windows NT

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and boot to Windows NT.
- 4 Log into Windows NT with administrator privileges.
- 5 The following steps are based on a first-time installation of Networking on the system. Adding a NIC to a previously installed Networking has some minor differences. Ask your administrator for more information.
- 6 Open the “Network Properties” windows and agree to install “Windows NT Networking”.
- 7 With “Wired to the Network” checked, click on “Next”.
- 8 Click on the option to “Select from list...” then on “Have Disk...”
- 9 Insert the driver disk and click on “OK”.
- 10 With “3Com EtherLink/Etherlink XL PCI Bus Master NIC” highlighted, click on “OK”.
- 11 With the “3Com EtherLink/Etherlink XL PCI Bus Master NIC” listed in the “Network Adapters:” window, click on “Next”.
- 12 Select all the applicable network protocols and click on “Next”.

Connecting to a Novell NetWare 5.0 Server

Microsoft Windows NT 4.0 Workstation

- 13 At the “Network Services:” prompt, accept the default settings and click on “Next”.
- 14 Complete the network card installation by clicking on “Next”.
- 15 Type in the path to your Windows NT files and click “Continue”.
- 16 If TCPIP was one of the protocols selected, you will be prompted for some TCPIP information. Your Network Administrator can provide you with this information.
- 17 Accept the default entries at the “Show Bindings for:” windows and click on “Next”.
- 18 When “Windows NT is now ready to start the network...” window appears, click on “Next”.
- 19 Specify your Computer Name, Workgroup or Domain Name and click “inexact”.
- 20 Click on “Finish” when the “Network has been installed on this computer” message appears.
- 21 Remove the driver disk and select “Yes” when prompted to restart your computer.
- 22 Log onto Windows NT Workstation with administrator privileges.
- 23 From the location of the “Novell Client v4.6 for Windows NT” installation files, execute “Winsetup.exe”.
- 24 Select the Language of Installation and click on it.
- 25 Click on “Windows NT Client”.
- 26 Select either “Typical” or “Custom” and click on “Install”. Typical Installation is normally chosen. Select Custom Installation only if you are an administrator or an advanced user. When prompted for options during installation, ask your Network Administrator for more information.
- 27 Click on “Yes” to agree with the Novell Terms and Conditions to proceed with the installation.
- 28 Click on “Yes” to replace the previous GINA (Graphical Identification and Authentication) authenticator with the Novell Client for Windows NT GINA authenticator.
- 29 Click on “Reboot” to restart the system once the installation is complete.
- 30 Log onto Windows NT Workstation with administrator privileges and re-install the current service pack.

6 Connecting to a Microsoft Windows NT 4.0 Server

Microsoft Windows NT 4.0 Workstation

Requirements

Operating System	Windows NT 4.0 Workstation
Driver Version	3.40.40
Driver File	E190xnd4.sys
Server OS	Windows NT 4.0 Server
Client OS	Microsoft

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and boot to Windows NT.
- 4 Log into Windows NT with administrator privileges.
- 5 The following steps are based on a first-time installation of Networking on the system. Adding a NIC to a previously installed Networking has some minor differences. Ask your administrator for more information.
- 6 Open the “Network Properties” windows and agree to install “Windows NT Networking”.
- 7 With “Wired to the Network” checked, click on “Next”.
- 8 Click on the option to “Select from list...” then on “Have Disk...”
- 9 Insert the driver disk and click on “OK”.
- 10 With “3Com EtherLink/Etherlink XL PCI Bus Master NIC” highlighted, click on “OK”.
- 11 With the “3Com EtherLink/Etherlink XL PCI Bus Master NIC” listed in the “Network Adapters:” window, click on “Next”.

Connecting to a Microsoft Windows NT 4.0 Server

Microsoft Windows NT 4.0 Workstation

- 12 Select all the applicable network protocols and click on “Next”.
- 13 At the “Network Services:” prompt, accept the default settings and click on “Next”.
- 14 Complete the network card installation by clicking on “Next”.
- 15 Type in the path to your Windows NT files and click “Continue”.
- 16 If TCPIP was one of the protocols selected, you will be prompted for some TCPIP information. Your Network Administrator can provide you with this information.
- 17 Accept the default entries at the “Show Bindings for:” windows and click on “Next”.
- 18 When “Windows NT is now ready to start the network...” window appears, click on “Next”.
- 19 Specify your Computer Name, Workgroup or Domain Name and click “inexact”.
- 20 Click on “Finish” when the “Network has been installed on this computer” message appears.
- 21 Remove the driver disk and select “Yes” when prompted to restart your computer.
- 22 Log onto Windows NT Workstation with administrator privileges and re-install the current service pack.

7 Connecting to a Novell NetWare 4.11 Server

Microsoft Windows NT 4.0 Workstation

Requirements

Operating System	Windows NT 4.0 Workstation
Driver Version	3.40.40
Driver File	E190xnd4.sys
Server OS	Novell NetWare 4.11 Server
Client OS	Client v4.6 for Windows NT

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and boot to Windows NT.
- 4 Log into Windows NT with administrator privileges.
- 5 The following steps are based on a first-time installation of Networking on the system. Adding a NIC to a previously installed Networking has some minor differences. Ask your administrator for more information.
- 6 Open the “Network Properties” windows and agree to install “Windows NT Networking”.
- 7 With “Wired to the Network” checked, click on “Next”.
- 8 Click on the option to “Select from list...” then on “Have Disk...”
- 9 Insert the driver disk and click on “OK”.
- 10 With “3Com EtherLink/Etherlink XL PCI Bus Master NIC” highlighted, click on “OK”.
- 11 With the “3Com EtherLink/Etherlink XL PCI Bus Master NIC” listed in the “Network Adapters:” window, click on “Next”.
- 12 Select all the applicable network protocols and click on “Next”.

Connecting to a Novell NetWare 4.11 Server

Microsoft Windows NT 4.0 Workstation

- 13 At the "Network Services:" prompt, accept the default settings and click on "Next".
- 14 Complete the network card installation by clicking on "Next".
- 15 Type in the path to your Windows NT files and click "Continue".
- 16 If TCPIP was one of the protocols selected, you will be prompted for some TCPIP information. Your Network Administrator can provide you with this information.
- 17 Accept the default entries at the "Show Bindings for:" windows and click on "Next".
- 18 When "Windows NT is now ready to start the network..." window appears, click on "Next".
- 19 Specify your Computer Name, Workgroup or Domain Name and click "inexact".
- 20 Click on "Finish" when the "Network has been installed on this computer" message appears.
- 21 Remove the driver disk and select "Yes" when prompted to restart your computer.
- 22 Log onto Windows NT Workstation with administrator privileges.
- 23 From the location of the "Novell Client v4.6 for Windows NT" installation files, execute "Winsetup.exe".
- 24 Select the Language of Installation and click on it.
- 25 Click on "Windows NT Client".
- 26 Select either "Typical" or "Custom" and click on "Install". Typical Installation is normally chosen. Select Custom Installation only if you are an administrator or an advanced user. When prompted for options during installation, ask your Network Administrator for more information.
- 27 Click on "Yes" to agree with the Novell Terms and Conditions to proceed with the installation.
- 28 Click on "Yes" to replace the previous GINA (Graphical Identification and Authentication) authenticator with the Novell Client for Windows NT GINA authenticator.
- 29 Click on "Reboot" to restart the system once the installation is complete.
- 30 Log onto Windows NT Workstation with administrator privileges and re-install the current service pack.

8 Connecting to a Novell NetWare 5.0 Server

Microsoft Windows 98
2nd edition

Requirements

Operating System	Windows 98 2 nd edition
Driver Version	3.41.50
Driver File	E190x.sys
Server OS	Novell NetWare 5.0 Server
Client OS	Client v3.1 for Windows 95/98

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and boot to Windows 98.
- 4 Windows 98 will detect the network adapter as “3Com EtherLink XL COMBO 10Mb Ethernet NIC (3C900B-COMBO)” during start up and install the OS embedded driver.
- 5 Click on “Yes” when Windows 98 prompts to restart the system.
- 6 After restarting the system, additional changes in the network properties, such as: workgroup name, computer name, etc. may be necessary. Ask your Network Administrator for more information. Restart the system if changes are made.
- 7 From the location of the “Novell Client v3.1 for Windows 95/98” installation files, execute “Setup.exe”.
- 8 Click on “Yes” to accept the “Novell Terms and Conditions”.
- 9 Select either “Typical” or “Custom” and click on “Install”. Typical Installation is normally chosen. Select Custom Installation only if you are an administrator or an advanced user. When prompted for options during installation, ask your Network Administrator for more information.
- 10 Click on “Reboot” once the installation is complete.

9 Connecting to a Microsoft Windows NT 4.0 Server

Microsoft Windows 98
2nd edition

Requirements

Operating System	Windows 98 2 nd edition
Driver Version	3.41.50
Driver File	E190x.sys
Server OS	Windows NT 4.0 Server
Client OS	Microsoft

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and boot to Windows 98.
- 4 Windows 98 will detect the network adapter as “3Com EtherLink XL COMBO 10Mb Ethernet NIC (3C900B-COMBO)” during start up and install the OS embedded driver.
- 5 Click on “Yes” when Windows 98 prompts to restart the system.
- 6 After restarting the system, additional changes in the network properties, such as: workgroup name, computer name, etc. may be necessary. Ask your Network Administrator for more information. Restart the system if changes are made.

10 Connecting to a Novell NetWare 4.11 Server

Microsoft Windows 98
2nd edition

Requirements

Operating System	Windows 98 2 nd edition
Driver Version	3.41.50
Driver File	E190x.sys
Server OS	Novell NetWare 4.11 Server
Client OS	Client v3.1 for Windows 95/98

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and boot to Windows 98.
- 4 Windows 98 will detect the network adapter as “3Com EtherLink XL COMBO 10Mb Ethernet NIC (3C900B-COMBO)” during start up and install the OS embedded driver.
- 5 Click on “Yes” when Windows 98 prompts to restart the system.
- 6 After restarting the system, additional changes in the network properties, such as: workgroup name, computer name, etc. may be necessary. Ask your Network Administrator for more information. Restart the system if changes are made.
- 7 From the location of the “Novell Client v3.1 for Windows 95/98” installation files, execute “Setup.exe”.
- 8 Click on “Yes” to accept the “Novell Terms and Conditions”.
- 9 Select either “Typical” or “Custom” and click on “Install”. Typical Installation is normally chosen. Select Custom Installation only if you are an administrator or an advanced user. When prompted for options during installation, ask your Network Administrator for more information.
- 10 Click on “Reboot” once the installation is complete.

11 Connecting to a Windows NT 4.0 Server

Microsoft Windows for Workgroups v3.11

Requirements

Operating System	Windows for Workgroups 3.11
Driver Version	3.33
Driver File	E190x.386
Server OS	Windows NT 4.0 Server
Client OS	Microsoft

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and start in MS-DOS mode.
- 4 Start Windows for Workgroups.
- 5 After Windows loads, open the “Network” Program Group and double-click on “Network Setup”.
- 6 Click on the “Networks” button in the “Network Setup” dialog box.
- 7 Select “Install Microsoft Windows Network” option and click “OK”.
- 8 Click on the “Drivers” button from the “Network Setup” dialog box and click on “Add Adapter”.
- 9 Click “OK” to accept the default choice of “Unlisted or Updated Network Adapter”.
- 10 Insert the driver disk and type the path to the drivers in the “Install Driver” dialog box and click “OK”.
- 11 Click “OK” to accept the default choice of “3Com Fast EtherLink XL / EtherLink XL Adapter (3C90x)”.
- 12 Accept the applicable network protocols, and then click on “Close”. Contact your network administrator if you do not have the required information.

- 13 Click "OK" at the "Network Setup" dialog box.
- 14 If needed, enter changes to the "Microsoft Windows Network Names" dialog box and click "OK".
- 15 Windows will prompt for the location of several files. Type the path to the file locations and click "OK". This step will be repeated several times until all of the files Windows needs have been copied.
- 16 Click "OK" on the next dialog box indicating that the CONFIG.SYS, AUTOEXEC.BAT, and SYSTEM.INI have been modified.
- 17 To complete the installation, remove the driver disk and click on "Restart Computer".

12 Connecting to a Novell NetWare 4.11 Server

Microsoft Windows for Workgroups v3.11

Requirements

Operating System	Windows for Workgroups 3.11
Driver Version	4.00
Driver File	3c90x.com
Server OS	Novell NetWare 4.11 Server
Client OS	Client 2.71 for DOS and Win3.x

Procedure

- 1 With the HP Vectra turned off, install the network adapter into a PCI slot.
- 2 Connect the network cable to the newly installed network adapter.
- 3 Power on the machine and start in MS-DOS mode.
- 4 Start Windows for Workgroups.
- 5 From the location of the “NetWare Client v2.71 for DOS and Windows 3.1x” installation files, execute “SETUP.EXE” in Windows. (“INSTALL.EXE” may also be executed in MS-DOS to install the client software, but the steps vary a little). When prompted for options during installation, ask your Network Administrator for more information.
- 6 Click on “Yes” to accept the Novell license agreement.
- 7 Click on “Next” to continue installation.
- 8 Select which optional modules you want to install and click “Next”
- 9 Type in the path of the destination directory of the Novell client files and click “Next”
- 10 Click on “Begin Copy” to start copying the client files.
- 11 Select the letter for the “First Network Drive” and click “Next”.
- 12 Select the “Program Group Name” you want the client software installed in and click “Next”.

- 13 Insert the driver disk and click on “Have Disk...” when prompted for drivers.
- 14 Type in the location of the 32-bit LAN driver and click “Add”.
- 15 Click “Next” to continue with the installation.
- 16 Modify the LAN adapter settings if needed and click “Next”.
- 17 Type in the following information now: Preferred Tree, Context, and Preferred Server and click “Next”.
- 18 Select the protocols you want to use and click “Next”.
- 19 When the installation is completed, remove the driver disk and click on “Finish” and restart the computer.
- 20 You may Logon to a server from the DOS prompt or load Windows for Workgroups v3.11 and use the “NetWare User Tools” from the “Novell Client” folder to login to a server (If you do not have the required information, contact your network administrator)

Known Problems

Problem1

The system will not connect to the Novell server using the 32-bit driver under Novell Client v.2.71. The following error message will appear at the DOS prompt after a system restart:

“Client 32: A file server could not be found.”

To fix this problem:

- 1 From the location of the “NetWare Client v2.71 for DOS and Windows 3.1x” installation files, execute “SETUP.EXE” in Windows. (“INSTALL.EXE” may also be executed in MS-DOS to install the client software, but the steps vary a little). When prompted for options during installation, ask your Network Administrator for more information.
- 2 Click on “Yes” to accept the Novell license agreement.
- 3 Click on “Next” to continue installation.
- 4 Select which optional modules you want to install and click “Next”
- 5 Type in the path of the destination directory of the Novell client files and click “Next”

Connecting to a Novell NetWare 4.11 Server

Microsoft Windows for Workgroups v3.11

- 6 Click on “Begin Copy” to start copying the client files.
- 7 Select the letter for the “First Network Drive” and click “Next”.
- 8 Select the “Program Group Name” you want the client software installed in and click “Next”.
- 9 Insert the driver disk and click on “Have Disk...” when prompted for drivers.
- 10 Type in the location of the 16-bit LAN driver and click “Add”.
- 11 Click “Next” to continue with the installation.
- 12 Modify the LAN adapter settings if needed and click “Next”.
- 13 Type in the following information now: Preferred Tree, Context, and Preferred Server and click “Next”.
- 14 Select the protocols you want to use and click “Next”.
- 15 When the installation is completed, remove the driver disk and click on “Finish” and restart the computer.
- 16 You may login to a server from the DOS prompt or load Windows for Workgroups v3.11 and use the “NetWare User Tools” from the “Novell Client” folder to login to a server (If you do not have the required information, contact your network administrator).

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